

4 CONSTRUCTION REQUIREMENTS

4.1 General

1. Design-Build Contractor shall construct the Work in accordance with the applicable requirements in the PPA Documents, including Project Standards, this Section 4 and its Attachment 4-1 (Unique Special Provisions: Construction); Governmental Approvals; and applicable laws.
2. Design-Build Contractor may work 24 hours per day, 6 days per week, except for the requirements in INDOT's Standard Specifications Section 108.08, local ordinances, and as follows: Perform no Construction Work from noon the day before a holiday until sunrise the day after the holiday.
3. Design-Build Contractor shall use a profilograph in accordance with Sections 401 and 501 of INDOT's Standard Specifications, as applicable. Smoothness will also be assessed on a cost basis for potential bonus or penalty pay adjustments in accordance with the Standard Specifications.
4. Design-Build Contractor shall install monuments in accordance with Chapter 17-4.09 of the Indiana Design Manual, the Standard Specifications, and Standard Drawings.
5. Design-Build Contractor shall maintain drainage at all times during all phases of construction.
6. Design-Build Contractor shall perform all required maintenance during construction for the Project, including maintaining the Field Office area(s). Required maintenance shall include mowing, pothole repair, roadway debris clean-up (dead animals, litter, motor vehicle accidents/incidents, hazards that disrupt normal traffic condition and flow), and other items required to maintain safe conditions. Any deviations to Standard Specification requirements for maintenance require INDOT approval prior to implementation. Note that Construction Memorandum 09-02, Potholes in Work Zones, does not apply. Design-Build Contractor shall assess and document pavement condition prior to NTP and repair existing potholes and any other potholes that develop during construction. A pothole can be defined as a roadway surface condition greater than 0.5 square feet in area and 1 inch in depth. At any point during the Project INDOT may, in its sole discretion, identify potholes to be repaired by Design-Build Contractor within 24 hours of notification, without additional compensation. INDOT is responsible for snow removal of active travel lanes within the Project area. Snow removal in areas of the Field Office(s) and other construction access points shall be performed by Design-Build Contractor.
7. An IMSA certified Level II technician shall be available 24 hours per day to respond within two hours for the maintenance of traffic signal equipment.
8. Design-Build Contractor shall be responsible for removing trash and debris including but not limited to tires, garbage, and animal remains from Site as required for highway operations and traffic maintenance during construction.

4.2 Clearing Right of Way

No tree clearing shall be performed from April 1 through September 30 on trees suitable for Indiana Bat and Northern Long-eared Bat roosting (greater than 3 inches diameter at breast height) unless approved in writing by U.S. Fish and Wildlife Service.

Tree clearing shall be limited to the construction limits, and include no more than is necessary to construct the proposed Work.

Work that involves impeding a stream channel during fish spawning season, April 1 through June 30, shall abide by and be restricted per the environmental commitments set forth within Attachment 6-1.

4.3 Scheduling and Notification

A Construction Work activity schedule shall be submitted to INDOT by 12:00 noon (Central time) on Friday of each week. The Construction Work activity schedule shall include all planned Construction Work activities, including fabrication, for the upcoming two weeks. This two-week schedule of planned Construction Work activities shall also be discussed at the weekly coordination meeting in order to allow timely coordination of inspection activities.

4.4 Documentation

Documentation of progress and observed performance shall be prepared, collected, and preserved during Design-Build Contractor's performance of the Construction Work. The documentation shall be in a digital format acceptable to INDOT and shall include:

1. Critical Path Method (CPM) Construction Schedule
2. Final Record Drawings
3. Secure databases, such as spreadsheets, and computation books
4. Progress photographs
5. Field change sheets for scope changes

A daily log for Construction Work activities shall be prepared and maintained by Design-Build Contractor's Project Manager or their designee(s). The daily log shall include all significant occurrences in a narrative form, including unusual weather, asserted occurrences, events, and conditions causing or threatening to cause any significant delay, disruption, or interference with the progress of any of the Work; significant injuries to person or property; and a listing of each Critical Path activity depicted on the current monthly plan update being actively prosecuted. The log shall also include traffic accidents and Lane Closures in effect at the time of the accident.

For Utility-related activities, such data shall be maintained separately in a log for each Utility facility.

For Hazardous Materials Management, such data shall be maintained separately in a log for each Site.

Documentation shall be completed and submitted at the following times and frequencies:

1. Monthly: Summary report of progress and updated CPM schedule
2. Weekly: Submit records that include factual evidence that required activities have been performed, including the following:
 - a. Nonconforming Work status
 - b. Proposed corrective actions
 - c. Corrective actions completed

4.5 Material Certifications

Design-Build Contractor shall present information regarding prestressed/precast structural members and the fabricators of any structural steel and other metal structural members to INDOT as soon as it is available. Copies of documentation for all sources of supply shall be provided as soon as they are known, but no less than 30 days prior to delivery to the Project.

Design-Build Contractor shall use the Department's current list of qualified manufacturers, producers, and fabricators for the specified materials, unless otherwise approved by INDOT at its sole discretion.

When Design-Build Contractor purchases materials from Suppliers shown on the Department's approved materials list, Design-Build Contractor shall be provided a materials certification, or a certificate of delivery, certificate of analysis, or certificate of compliance, as required, from the Supplier, that covers the materials and the source. All documentary evidence that materials and equipment conform to the procurement requirements shall be submitted to INDOT or its representative at the same time Design-Build Contractor receives such documentary evidence. If Design-Build Contractor wishes to purchase materials from a Supplier not shown on the Department's approved materials list, Design-Build Contractor must submit a request to INDOT for its sole discretionary approval.

Documentary evidence that materials and equipment conform to the procurement requirements are to be available at the Site no less than 24 hours prior to installation or the use of such materials and equipment. This documentary evidence shall be retained at the Site and be sufficient to identify that the specific requirements, such as Construction Documents, Project Standards, and applicable Laws, are fulfilled by the purchased materials and equipment. The substitution of specified materials is not to occur without prior approval by Design-Build Contractor's Lead Engineer and INDOT. Failure to acquire prior substitution approval will result in the assignment of a Nonconforming Work and cause for possible rejection or rework.

4.6 Deliverables

Deliverables, a non-exhaustive list of which is set forth in the table below, shall be submitted in both hardcopy and electronic format in accordance with the schedule set forth below. Acceptable electronic formats include PDF and current versions of Microsoft Word and Microsoft Excel, unless otherwise indicated.

TECHNICAL PROVISIONS – Section 4
Construction Requirements

Deliverable	Schedule	TP Section
Construction Work activity schedule	By 12:00 noon on Friday of each week during Construction Work	4.3
Construction documentation	See Section 4.4	4.4
Sources of supply of fabricated and prestressed/precast structural members and copies of documentation	As soon as known, but no less than 30 days prior to delivery	4.5
Material certifications	Upon receipt from Suppliers	4.5